

IN THE CLAIMS:

1. (Currently Amended) A battery comprising:

an electrode having at least a first surface;

~~a plurality of closed cells disposed in a predetermined feature pattern on said at least a first surface, and~~

a plurality of nanostructures, disposed on said surface to form a feature pattern on said surface, and

a first an electrolyte liquid fluid disposed within said plurality of cells in contact with said nanostructures,

wherein said nanostructures are configured to cause an electrolyte liquid to change a degree of penetration of said feature pattern enable controllably changing a degree of penetration of said feature pattern by said electrolyte liquid.
2. (Cancelled)
3. (Currently Amended) The battery of claim 1 wherein said ~~plurality of closed cells nanostructures each have at least a first dimension less than 1 micron are closed cells.~~
4. (Currently Amended) The battery of claim 1 wherein a temperature of said ~~first fluid electrolyte liquid~~ is increased or decreased to cause said change.
5. (Currently Amended) The battery of claim [[4]] 3 or 17 further comprising one or more cell electrodes disposed within at least a portion of said closed cells,

wherein, upon causing electrical current to flow through said cell electrodes, [[said]] a temperature of said fluid electrolyte liquid increases.

6. Cancelled

7. (Withdrawn—Currently Amended) A method for controlling the contact of an electrolyte liquid with an electrode, comprising:

providing said electrode comprising a plurality of nanostructures closed cells disposed in a predetermined feature pattern on said electrode;

configuring and said electrolyte liquid disposed on to be in contact with at least a portion of said nanostructures ~~the closed cells in said plurality of closed cells, and said method~~ comprising:

controllably changing a degree of penetration of said feature pattern by said electrolyte liquid selectively changing the pressure of at least a first fluid in at least one cell in said plurality of cells in a way such that said electrolyte will achieve a desired level of penetration of said cells.

8. (Withdrawn—Currently Amended) The method of claim 7 wherein said degree of penetration pressure is changed by changing ~~the~~ a temperature of ~~the~~ a fluid in contact with said feature pattern within said at least one cell.

9. (Withdrawn—Currently Amended) The method of claim 7 wherein said feature pattern includes a each cell in said plurality of closed cells has at least a first dimension less than 1 millimeter.

10. (Withdrawn—Currently Amended) The method of claim [[7]] 2 wherein ~~each cell in said plurality of cells has at least a first dimension less than 1 micron~~ said degree of penetration is

changed by changing a pressure of a gas or liquid disposed within a closed cell of said feature pattern.

11. (Withdrawn—Currently Amended) The method of claim [[8]] 9 wherein ~~said a~~ temperature of a fluid within at least one of said closed cells is changed by causing electrical current to flow through a ~~plurality of cell electrode[[s]], said cell electrode[[s]]~~ disposed within said at least ~~a portion of said one~~ closed cell[[s]], thus increasing the said temperature of said fluid.

Claims 12-15: Cancelled

16. (New) The battery of claim 1 wherein said feature pattern comprises a plurality of posts.

17. (New) The battery of claim 1 wherein said feature pattern comprises a plurality of closed cells.

18. (New) The battery of claims 3 or 17 wherein said closed cells have a hexagonal cross section.

19. (New) The battery of claim 1 wherein said degree of penetration is controlled by changing a pressure of a fluid disposed within a closed cell of said feature pattern.

20. (New) The battery of claim 19 wherein said fluid is a gas.

21. (New) The battery of claim 1 wherein said degree of penetration is controlled by changing a contact angle formed between said electrolyte liquid and said nanostructures.

22. (New—Withdrawn) The method of claim 7 wherein said degree of penetration is changed by changing a contact angle formed between said electrolyte liquid and said nanostructures.

23. (New—Withdrawn) The method of claim 8 wherein said fluid is a gas.